42

# **PCT**

### INTERNATIONAL SEARCH REPORT

Applicant's or agent's file reference	EOR ELIRTHER See Notification	of Transmittal of International Search Report
39791/IML	ACTION (Form PCT/ISA/	220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 99/03775	12/11/1999	13/11/1998
Applicant		
		•
MARS U.K. LIMITED et al	•	
	been prepared by this International Searching Autog transmitted to the International Sureau,	thority and is transmitted to the applicant
	d by a copy of each prior art document cited in this	s report.
1. Basis of the report		
	the international search was carried out on the ba , unless otherwise indicated under this item.	sis of the international application in the
the international sear Authority (Rule 23.1(l	ch was canted out on the basis of a translation of i	the international application furnished to this
·	and/or amino acid sequence disclosed in the h	nternational application, the international search
	national application in written form.	
filed together with the	international application in computer readable for	<b>n.</b>
turnished subsequent	ly to this Authority in written form.	
turnished subsequent	ty to this Authority in computer readble form.	
	subsequently furnished written sequence listing on as filed has been furnished.	toes not go beyond the disclosure in the
the statement that the furnished	information recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were	found unsearchable (See Box I).	
3. Unity of invention is	lacking (see Box II).	
4. With regard to the title,		
The text is approved a	s submitted by the applicant.	
the text has been est	ablished by this Authority to read as follows:	
		· •
5. With regard to the abstract,	·	
	s submitted by the applicant.	
the text has been est within one month from	ablished, according to Rule 38.2(b), by this Author In the date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be	published with the abstract is Figure No.	1
as suggested by the	applicarit.	None of the figures.
	t falled to suggest a figure.	
because this figure bo	otter characterizes the invention.	



Immrational Application No. PCT/GB 99/03775

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61B5/107 G01N33/12 G01G19/50

According to international Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system to Howed by classification symbols) IPC 7 A61B G01N G01G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to datm No.
X	WO 98 08437 A (POWELL DAVID KEVIN)	1,4,5
`	5 March 1998 (1998-03-05)	<b>,</b>
Υ	page 5, line 18 -page 8, column 32;	/
	figures	
Y	PATENT ABSTRACTS OF JAPAN	7
•	vol. 098, no. 012,	İ
	31 October 1998 (1998-10-31) & JP 10 192258 A (MATSUSHITA ELECTRIC	·
	WORKS LTD), 28 July 1998 (1998-07-28)	
A	abstract	1
•		1
	<b>-/</b>	
		1
•		
		1

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
"Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance.  "E" earlier document but published on or after the international filing date.  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clattion or other special reason (as specified).  "O" document reterring to an oral disclosure, use, exhibition or other means.  "P" document published prior to the international filing date but inter than the priority date claimed.	"I later document published after the international filing date or priority date and not in condict with the application but called to understand the principle or theory underlying the invention.  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone cannot be considered to involve an inventive step when the document is considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "E" document member of the same paters tamily
Date of the actual completion of the international search	Date of mailing of the international search report
10 April 2000	18/04/2000
Name and mailing address of the ISA	Authorized officer
European Paters Office, P.B. 5818 Pateritican 2 NL - 2280 HV Ripswift Tel. (431-70) 340-2040, Tx. 31 851 epo nl, Fax: (+31-70) 340-3016	Bosma, R

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retermentional Application No. PCT/GB 99/03775

	PCT	7/GB 99/03775			
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
A	RUSH E C ET AL: "Estimation of Body Fat in Caucasian and Polynesian Women from Anthropometric Measurements" APPLIED RADIATION AND ISOTOPES, vol. 49, no. 5-6, 6 May 1998 (1998-05-06), page 749-750 XP004110619 the whole document	1,7			
X	FR 2 731 144 A (BERNARD GEORGES ET AL.) 6 September 1996 (1996-09-06) page 4, line 8 -page 6, line 29; figure 1	9,11, 13-15			
A	US 5 372 141 A (GALLUP ET AL.) 13 December 1994 (1994-12-13) column 4 -column 17, line 41; figures	9–15			
•					
	,				

Patent document cited in search report	:	Publication date	Patent family member(s)	Publication date
WO 9808437	Α	05-03-1998	AU 3842997 A	19-03-1998
JP 10192258	Α	28-07-1998	NONE	· · · · · · · · · · · · · · · · · · ·
FR 2731144	Α	06-09-1996	NONE	<del></del>
US 5372141	A	13-12-1994	NONE	

Form PCT/ISA/210 (pattern family annex) (July 1992)



# PCT

PATENT COOPERATION TREATY

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file refe	erence				
39791/IML	FOR FURTHER	RACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing d	ate (day/month/ye	ear) Priority date (day/month/year)		
PCT/GB99/03775	12/11/1999	•	13/11/1998		
A6185/107	ation (IPC) or national classification an	d IPC	:		
Applicant					
MARS U.K. LIMITED et	al,				
This international pre- and is transmitted to the state of the st	liminary examination report has be the applicant according to Article 3	een prepared by 36.	y this International Preliminary Examining Authority		
2. This REPORT consist	ts of a total of 8 sheets, including	this cover shee	et.		
Booti amongou a	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consis	st of a total of 1 sheets.				
3. This report contains in	dications relating to the following	items:			
I ⊠ Basis of th	ne report				
II 🗆 Priority					
III 🗆 Non-estab	lishment of opinion with regard to	novelty, inventi	ive step and industrial applicability		
IV 🗆 Lack of un	lity of invention	,,	подражения подражения		
- VIGILOTIS &	ing explanations suporting such st	h regard to nove atement	elty, inventive step or industrial applicability;		
_	ocuments cited				
	fects in the international application				
VIII ⊠ Certain ob	servations on the international app	plication			
·					
Date of submission of the dema	and	Date of comp	oletian of this report		
13/06/2000		23.02.2001	·		
Name and mailing address of the preliminary examining authority	:	Authorized of	ficer Special State of the Stat		
D-80298 Munich Tel. +49 89 2399 Fax: +49 89 2399	· 0 Tx: 523656 epmu d	Lohmann,			
1 44. 773 63 2333	- 4403 	Telephone No	o. +49 89 2399 2328		





## INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB99/03775

l.	Ba	sis of the report					
1.	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):  Description, pages:						
	1-3	3,5-12	as originally filed			v	
	4		as received on	30/01/2001	with letter of	26/01/2001	
	Cla	aims, No.:					
	1-1	5	as originally filed			•	
	Dra	awings, sheets:					
	1/5	-5/5	as originally filed				
2.	Wit lang	h regard to the lang guage in which the i	uage, all the elements mark international application was	ked above were av	vailable or furnished rwise indicated und	I to this Authority in the ler this item.	
	The	ese elements were a	available or furnished to this	Authority in the fo	llowing language:	, which is:	
		the language of a t	translation furnished for the	purposes of the in	nternational search	(under Rule 23.1(b)).	
			blication of the international				
			translation furnished for the			examination (under Rule	
3.	With inte	h regard to an <b>y nuc</b> mational preliminary	leotide and/or amino acid y examination was carried o	sequence disclos ut on the basis of	ed in the internation the sequence listing	nal application, the g:	
		contained in the int	temational application in writ	tten form.			
			the international application		able form.		
			ently to this Authority in writt				
		furnished subseque	ently to this Authority in com	puter readable for	rm.		
		The statement that	the subsequently furnished oplication as filed has been f	written sequence		beyond the disclosure in	

☐ The statement that the information recorded in computer readable form is identical to the written sequence

4. The amendments have resulted in the cancellation of:

listing has been furnished.





# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/03775

the description,	pages:
the claims,	Nos.:
the drawings,	sheets:

5. 

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims 6, 10, 13, 14

No: Claims 1-5, 7-9, 11, 12, 15

,

Inventive step (IS)

Yes: Claims

No: Claims 6, 10, 13, 14

Industrial applicability (IA)

Yes: Claims 1-15

No: Claims

2. Citations and explanations see separate sheet

#### VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

#### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet



# INTERNATIONAL PRELIMINARY Inter

International application No. PCT/GB99/03775

### Re Item V

The present invention is **solely** directed towards a **method** of determining body fat in pet mammals or a corresponding formula, respectively, which is stored in a look-up table with exemplary values. Such a look-up table does however **not confer any technical feature** to the claims. It is rather directed towards the **mere presentation of information**. Therefore, the subject-matter of the application is actually covered by the provisions of Article 34(4)(a)(i) PCT and Rule 67.1(v) PCT.

Notwithstanding the above objection, it is indicated that the present application does not meet the requirements of Article 33 PCT, because the subject-matter of the independent claims is not new in the sense of Article 33(2) PCT.

1 Reference is made to the following documents:

D1: WO 98/08437 A (POWELL D K) 5 March 1998

D2: FR 2 731 144 A (BERNARD G, SEVLIAN P) 6 September 1996

- Document D1 is regarded as closest prior art to the subject-matter of claim 1, and insofar as this claim can be understood (see Section VIII), this document discloses a body fat determining system (tape 10 in Fig. 1 and 2) showing the following features (the references in parentheses applying to this document):
  - means for measuring a first body dimension having a high correlation with percentage body fat (sizes A and B indicated in Fig. 1a and Fig. 2a; also cf. page 7, lines 1-10)
  - means for measuring a second body dimension having a low correlation with percentage body fat (size <u>C</u> indicated in Fig. 1a and Fig. 2a)
  - a look-up table comprising storage areas for entries of both dimensions (storing areas for both body dimensions can be found on tape 10 throughout the figures;
     Fig. 1c and 2g both show the formula yielding the entries of a corresponding look-up table; also cf. table 1 with entries of percentage body fat).

Consequently, the system of claim 1 is not new in the sense of Article 33(2) PCT.



## INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB99/03775

It is indicated, that the subject-matter of claim 1 is also anticipated by document D2 (see "capteurs périmétriques" 4, which constitute the means for measuring and "calculateur" 2, in which a corresponding look-up table is stored; also cf. page 5, lines 20-38).

Furthermore, a common system for determining the body mass index (BMI) of humans, which has been cited on page 1 of the present application, is also detrimental to the novelty of the system of claim 1 (BMI = weight [kg] / height² [m²]). Means for measuring both body characteristics are known (e.g. a ruler or a tape for the height), values yielded by the aforementioned formula are stored in corresponding look-up tables.

- Since in independent claims 8 and 9 in fact no features are presented, which are 3 different to those of independent claim 1 (cf. Section VIII), their novelty is also destroyed for the reasons mentioned above with regard to claim 1.
- Dependent claims 2-7 and 9-15 do not contain any features which, in combination 4 with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step, respectively, the reasons being as follows:
- Numerous body dimensions, as set out in claims 2 and 3, are disclosed in D1 (see 4.1 inscriptions on tape 10 and page 8, lines 20-24). The already cited ruler or tape are both still suitable for measuring any body dimension, thereby being detrimental to the novelty of these claims. Each of said body dimensions furthermore merely represents one of several
  - straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill.
- Indications of under, normal or overweight (claim 4) are taught by table 1 of D1, 4.2 which shows entries of percentage body fat (claim 5).
- The equation brought forward in claims 6 and 10, respectively, merely result from 4.3 trial-and-error experiments. Corresponding features can therefore not be considered to be based on an inventive step.



# INTERNATIONAL PRELIMINARY International application No. PCT/GB99/03775 EXAMINATION REPORT - SEPARATE SHEET

- 4.4 Each of the systems discussed above (see D1, D2 and the common system for BMI determination) are suitable for being applied to a cat, thereby being detrimental to the novelty of the subject-matter of claims 7 and 15.
- 4.5 The ideal weight as a target weight, as set out in claim 11, is taught by D1, cf. table 1 and 3.
- 4.6 The lack of novelty for claim 12 follows from the objections with regard to claims 1 and 9.
- 4.7 The consideration of the energy allowance, as set out in claims 13 and 14, is obvious in view of page 5, lines 15-19, of D2.

### Re Item VII

- The independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
  - The independent claims should therefore have been redrafted accordingly.
- 2 Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in document D1 is not mentioned in the description, nor is this document identified therein.
- The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).



# INTERNATIONAL PRELIMINARY

International application No. PCT/GB99/03775

## EXAMINATION REPORT - SEPARATE SHEET

### Reit m VIII

Although claims 1 and 9 have been drafted as separate independent claims, they 1 appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought.

Hence, claims 1 and 9 do not meet the requirements of Article 6 PCT.

In this respect, the applicant's attention is also drawn to the requirement of unity of the invention (Rule 13 PCT), which is no more satisfied, since the subject-matter of all independent claims is not new in view of the prior art.

- The degree of correlation between a body dimension and the percentage body fat 2 does not confer any technical feature to the measuring means of claim 1, contrary to the requirements of Article 6 PCT.
- Since both measurements of claim 1 can e.g. be performed using the same tape 3 measure, both means for measuring in fact correspond to one single feature.
- The feature in system claim 1, according to which the indication of body fat is 4 determined from a relationship, relates to a method of using the apparatus rather than clearly defining the apparatus in terms of its technical features. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT.
- Claim 4 attempts to define its subject-matter in terms of the result to be achieved 5 which merely amounts to a statement of the underlying problem, thereby violating Article 6 PCT. The technical features necessary for achieving this result should have been added.



# INTERNATIONAL PRELIMINARY

International application No. PCT/GB99/03775

0012122182200

**EXAMINATION REPORT - SEPARATE SHEET** 

Claims 7 and 15 do not meet the requirements of Article 6 PCT in that the matter for 6 which protection is sought is not clearly defined. The functional statement of a cat to be measured does not enable the skilled person to determine which technical features are necessary to perform the stated function (also cf. the Guidelines PCT III-4.8a).

PCT/GB99/03775

WO 00/28897

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Figure 4 - is a diagrammatic representation of a third look-up table;

Figure 5 - is a diagrammatic representation of a fourth look-up table;

Figure 6 - is a diagrammatic representation of a fifth look-up table; and

Figure 7 - is a diagrammatic representation of a sixth look-up table.

The embodiment shown in Figure 1 may be either manually operated, or a computerised system. A first measurement device 10 and a second measurement device 12 are provided to take measurements of, respectively, the ribcage circumference and the led index measurement [LIM] to provide the results to the look-up table 18. In a computerised embodiment/ the measurement devices 10, 12 would provide measurement signals to a computer, storing therein in first, second and output storage areas respectively, ribcage and LIM, and corresponding fat percentage indications. These are shown as storage and determination functions 14 in Figure 1. The results are displayed as an output display 18. The determination algorithm (described later) could be coded in any simple computer language, and is within the common general knowledge of the skilled person, and need not be described here.

A manual representation of the look-up table 18 is shown in Figures 2 and 3. There is shown a first storage area 20, storing first body dimensions (ribcage) measurements, and a second storage area 22, storing second body dimensions (LIM). An output storage area 24 stores an

Replaced by article 34

## PATENT COOPERATION TREATY

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To

LOVELESS, IAN MARK REDDIE & GROSE 16, Theobalds Road London WC1X 8PL GRANDE BRETAGNE PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

·S·01

Date of mailing (day/month/year)

23.02.2001

Applicant's or agent's file reference

39791/IML

International filing date (day/month/year)

Priority date (day/month/year)

IMPORTANT NOTIFICATION

13/11/1998

International application No. PCT/GB99/03775

12/11/1999

Applicant

MARS U.K. LIMITED et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

<u>o)))</u>

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Authorized officer

Edel, M

Tel.+49 89 2399-2426



# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
39791/IM	L		
Internationa	application No.	International filing date (day/mor	
PCT/GB9	9/03775	12/11/1999	13/11/1998
Internationa A61B5/10		r national classification and IPC	
Applicant			
	K. LIMITED et al.		
and is  2. This I  I This I  (s	transmitted to the applicance of a total transmitted to the applicance of a total transmitted to the applicance of a total area to a second and are the applicance of a second area to a second area a second	ant according to Article 36.  If of 8 sheets, including this cover anied by ANNEXES, i.e. sheets of basis for this report and/or sheets on 607 of the Administrative Instru	the description, claims and/or drawings which have s containing rectifications made before this Authority
1	☐ Basis of the report	relating to the following items:	
11	☐ Priority	of opinion with regard to novelty.	inventive step and industrial applicability
III IV	<ul><li>☐ Non-establishment</li><li>☐ Lack of unity of inv</li></ul>		·
v	⊠ Reasoned stateme	nt under Article 35(2) with regard nations suporting such statement	to novelty, inventive step or industrial applicability;
VI	☐ Certain document		•
VII		he international application	
VIII	☑ Certain observation	ns on the international application	
Date of su	bmission of the demand	Date	of completion of this report
13/06/20		23.0	2.2001
	mailing address of the internal examining authority:	ational Auth	norized officer
<b>a</b>	European Patent Office D-80298 Munich		nmann, S
)	Tel. +49 89 2399 - 0 Tx: 5		ophone No. +49 89 2399 2328

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/03775

					•			
		is of the report						
1. This report has been drawn on the basis of (substitute sheets which have been furnished to the received response to an invitation under Article 14 are referred to in this report as "originally filed" and are not at the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages:						shed to the receiving Office ed" and are not annexed to	₃ in o	
	1-3,	5-12	as originally filed					
	4		as received on		30/01/2001	with letter of	26/01/2001	
	Clai	ms, No.:						
	1-15	5	as originally filed	·		·	_	
	Dra	wings, sheets:						
	1/5-	5/5	as originally filed		·			
2.	lang	juage in which the	guage, all the elemer international applicat available or furnished	ion was ti	led, uniess oth	erwise indicated (		
		the language of p	ublication of the inter	national a	pplication (und	ler Rule 48.3(b)).	ch (under Rule 23.1(b)).	
		the language of a 55.2 and/or 55.3).	translation furnished	for the pu	urposes of inte	rnational prelimin	ary examination (under Ru	le
3.	Witl inte	n regard to any <b>nu</b> o rnational prelimina	cleotide and/or amir ry examination was o	no acid se arried out	equence disclor on the basis of	osed in the interna of the sequence li	ational application, the sting:	•
	<u> </u>	contained in the ir	nternational application	on in writte	en form.			
		filed together with	the international app	lication in	computer read	dable form.		
		furnished subsequ	uently to this Authorit	y in writte	n form.		•	
		furnished subseq	uently to this Authorit	y in comp	uter readable f	form.		
		The statement that the international a	at the subsequently for application as filed ha	urnished v s been fu	vritten sequend rnished.	ce listing does no	t go beyond the disclosure	
		The statement tha	at the information rec	orded in c	omputer reada	ble form is identi	cal to the written sequence	<b>;</b>

4. The amendments have resulted in the cancellation of:

listing has been furnished.

## INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB99/03775

E	]	the description,	pages:
	]	the claims,	Nos.:
	]	the drawings,	sheets:
5.  This report has been established as if (some of) the amendments had not been made, since considered to go beyond the disclosure as filed (Rule 70.2(c)):			
(Any replacement sheet containing such amendments must be referred to under item 1 and annexed report.)			
			·

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Claims 6, 10, 13, 14 Yes: Novelty (N)

Yes:

1-5, 7- 9, 11, 12, 15 Claims No:

1-15

Yes: Claims Inventive step (IS)

Claims No:

Claims

6, 10, 13, 14

Claims No:

2. Citations and explanations see separate sheet

Industrial applicability (IA)

## VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

### Re Item V

The present invention is **solely** directed towards a **method** of determining body fat in pet mammals or a corresponding formula, respectively, which is stored in a look-up table with exemplary values. Such a look-up table does however **not confer any technical feature** to the claims. It is rather directed towards the **mere presentation of information**. Therefore, the subject-matter of the application is actually covered by the provisions of Article 34(4)(a)(i) PCT and Rule 67.1(v) PCT.

Notwithstanding the above objection, it is indicated that the present application does not meet the requirements of Article 33 PCT, because the subject-matter of the independent claims is not new in the sense of Article 33(2) PCT.

1 Reference is made to the following documents:

D1: WO 98/08437 A (POWELL D K) 5 March 1998

D2: FR 2 731 144 A (BERNARD G, SEVLIAN P) 6 September 1996

- Document D1 is regarded as closest prior art to the subject-matter of claim 1, and insofar as this claim can be understood (see Section VIII), this document discloses a body fat determining system (tape 10 in Fig. 1 and 2) showing the following features (the references in parentheses applying to this document):
  - means for measuring a first body dimension having a high correlation with percentage body fat (sizes <u>A</u> and <u>B</u> indicated in Fig. 1a and Fig. 2a; also cf. page 7, lines 1-10)
  - means for measuring a second body dimension having a low correlation with percentage body fat (size <u>C</u> indicated in Fig. 1a and Fig. 2a)
  - a look-up table comprising storage areas for entries of both dimensions (storing areas for both body dimensions can be found on tape 10 throughout the figures;
     Fig. 1c and 2g both show the formula yielding the entries of a corresponding look-up table; also cf. table 1 with entries of percentage body fat).

Consequently, the system of claim 1 is not new in the sense of Article 33(2) PCT.

It is indicated, that the subject-matter of claim 1 is also anticipated by document D2 (see "capteurs périmétriques" 4, which constitute the means for measuring and "calculateur" 2, in which a corresponding look-up table is stored; also cf. page 5, lines 20-38).

Furthermore, a common system for determining the body mass index (BMI) of humans, which has been cited on page 1 of the present application, is also detrimental to the novelty of the system of claim 1 (BMI = weight [kg] / height² [m²]). Means for measuring both body characteristics are known (e.g. a ruler or a tape for the height), values yielded by the aforementioned formula are stored in corresponding look-up tables.

- Since in independent claims 8 and 9 in fact no features are presented, which are 3 different to those of independent claim 1 (cf. Section VIII), their novelty is also destroyed for the reasons mentioned above with regard to claim 1.
- Dependent claims 2-7 and 9-15 do not contain any features which, in combination 4 with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step, respectively, the reasons being as follows:
- Numerous body dimensions, as set out in claims 2 and 3, are disclosed in D1 (see 4.1 inscriptions on tape 10 and page 8, lines 20-24). The already cited ruler or tape are both still suitable for measuring any body dimension, thereby being detrimental to the novelty of these claims. Each of said body dimensions furthermore merely represents one of several
  - straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill.
- Indications of under, normal or overweight (claim 4) are taught by table 1 of D1, 4.2 which shows entries of percentage body fat (claim 5).
- The equation brought forward in claims 6 and 10, respectively, merely result from 4.3 trial-and-error experiments. Corresponding features can therefore not be considered to be based on an inventive step.

- 4.4 Each of the systems discussed above (see D1, D2 and the common system for BMI determination) are suitable for being applied to a cat, thereby being detrimental to the novelty of the subject-matter of claims 7 and 15.
- 4.5 The ideal weight as a target weight, as set out in claim 11, is taught by D1, cf. table 1 and 3.
- 4.6 The lack of novelty for claim 12 follows from the objections with regard to claims 1 and 9.
- 4.7 The consideration of the energy allowance, as set out in claims 13 and 14, is obvious in view of page 5, lines 15-19, of D2.

### Re Item VII

- The independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
  - The independent claims should therefore have been redrafted accordingly.
- 2 Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in document D1 is not mentioned in the description, nor is this document identified therein.
- The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

### Re Item VIII

Although claims 1 and 9 have been drafted as separate independent claims, they 1 appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought.

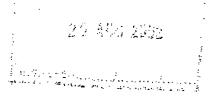
Hence, claims 1 and 9 do not meet the requirements of Article 6 PCT.

In this respect, the applicant's attention is also drawn to the requirement of unity of the invention (Rule 13 PCT), which is no more satisfied, since the subject-matter of all independent claims is not new in view of the prior art.

- The degree of correlation between a body dimension and the percentage body fat 2. does not confer any technical feature to the measuring means of claim 1, contrary to the requirements of Article 6 PCT.
- Since both measurements of claim 1 can e.g. be performed using the same tape 3 measure, both means for measuring in fact correspond to one single feature.
- The feature in system claim 1, according to which the indication of body fat is 4 determined from a relationship, relates to a method of using the apparatus rather than clearly defining the apparatus in terms of its technical features. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT.
- Claim 4 attempts to define its subject-matter in terms of the result to be achieved 5 which merely amounts to a statement of the underlying problem, thereby violating Article 6 PCT. The technical features necessary for achieving this result should have been added.

Claims 7 and 15 do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The functional statement of a cat to be measured does not enable the skilled person to determine which technical features are necessary to perform the stated function (also cf. the Guidelines PCT III-4.8a).





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29 August 2002

Mr Ray Tettman WATERMARK PATENT & TRADEMARK ATTORNEYS Locked Bag 5 HAWTHORN VIC 3122

Your Ref: P19614AU00

Examiner's first report on patent application no. 10649/00by MARS UK LIMITED

Last proposed amendment no.

Dear Mr Tettman,

I am replying to the request for examination. I have based this report on the verified translation and the amendments already made under the Articles of the PCT dated 30 January 2001. I have examined the application and I believe that there are lawful grounds of objection to the application. These grounds of objection are:

- 1. There is no Notice of Entitlement on file.
- 2. The invention defined in Claims 1, 8, 9 et al is not novel when compared with the following document which discloses all the essential features of the invention claimed:
  - a) WO 98/08437 A (Powell) and
  - b) FR 2731144 A (Bernard et al) as cited in the corresponding IPER.
- 3. The additional features of appended Claims 2 to 7 and 10 to 15 are considered to be either explicitly disclosed by the above citations, or part of the common general knowledge of the health industry, hence they are not considered to be novel or involve an inventive step.

You have 21 months from the date of this report to overcome all my objection(s) otherwise your application will lapse. You will need to pay a monthly fee for any response you file after 12 months from the date of this report.

Yours sincerely,

COLIN FITZGIBBON

Examiner of Patents, Section B5

Telephone: (02) 6283 2226

## PATENT COOPERATION TREATY

From the: INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY LOVELESS, IAN MARK REDDIE & GROSE WRITTEN OPINION 16, Theobalds Road London WC1X 8PL IML GRANDE BRETAGNE (PCT Rule 66) 30.08.2000 within 3 month(s) REPLY DUE Applicant's or agent's file reference from the above date of mailing 39791/IML Priority date (day/month/year) International filing date (day/month/year) International application No. 13/11/1998 12/11/1999 PCT/GB99/03775 International Patent Classification (IPC) or both national classification and IPC A61B5/107 Applicant MARS U.K. LIMITED et al. This written opinion is the first drawn up by this International Preliminary Examining Authority. This opinion contains indications relating to the following items:  $\boxtimes$ Basis of the opinion . 1 □ Priority н Non-establishment of opinion with regard to novelty, inventive step and industrial applicability 111 Lack of unity of invention IV Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Certain document cited VΙ Certain defects in the international application VII Certain observations on the international application VIII The applicant is hereby invited to reply to this opinion. See the time limit indicated above. The applicant may, before the expiration of that time limit, When? request this Authority to grant an extension, see Rule 66.2(d). By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. How? For the form and the language of the amendments, see Rules 66.8 and 66.9. For an additional opportunity to submit amendments, see Rule 66.4. Also: For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6. If no reply is filed, the international preliminary examination report will be established on the basis of this opinion. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 13/03/2001. Authorized officer / Examiner Name and mailing address of the international



preliminary examining authority:

European Patent Office D-80298 Munich

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Lohmann, S

Formalities officer (incl. extension of time limits)

Telephone No. +49 89 2399 2423



# WRITTEN OPINION

	Basis of the opinion				•			
1.	<ol> <li>This opinion has been drawn on the basis of (substitute sheets which have been furnished to the receiv in response to an invitation under Article 14 are referred to in this opinion as "originally filed".):</li> </ol>							Эпісе
	Description, pages:							
	1-12	as originally filed		~				
	Claims, No.:							
	Olamo, Hon							
	1-15	as originally filed						
					•			
	Drawings, sheets:	•				•		
	1/5-5/5	as originally filed	I				٠.	
	·							٠
2.	The amendments have	e resulted in the c	ancellation of:					
	☐ the description,	pages:						
	the claims,	Nos.:		•				
	the drawings,	sheets:						
3.	This opinion has been	established as if	(some of) the a	mendments ha	d not been	made, since	they have be	en
	considered to go beyo	and the disclosure	as filed (Rule 7	U.Z(C)).				
4.	Additional observation	ns, if necessary:						
					•			
٧	V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Statement							•10
	Novelty (N)	Claims	1. 7. 8, 9. 15					
	Inventive step (IS)	Claims	2-6. 10-14			•		
	Industrial applicability	(IA) Claims						

Citations and explanations see s parat sh et

### Re Item V

The present application does not met the requirements of Article 33 PCT, because the subject-matter of the independent claims is not new in the sense of Article 33(2) PCT.

1 Reference is made to the following documents:

D1: WO 98/08437 A (POWELL D K) 5 March 1998

D2: FR 2 731 144 A (BERNARD G, SEVLIAN P) 6 September 1996

- Document D1 is regarded as closest prior art to the subject-matter of claim 1, and insofar as this claim can be understood (see Section VIII), this document discloses a body fat determining system (tape 10 in Fig. 1 and 2) showing the following features (the references in parentheses applying to this document):
  - means for measuring a first body dimension having a high correlation with percentage body fat (sizes <u>A</u> and <u>B</u> indicated in Fig. 1a and Fig. 2a; also cf. page 7, lines 1-10)
  - means for measuring a second body dimension having a low correlation with percentage body fat (size <u>C</u> indicated in Fig. 1a and Fig. 2a)
  - a look-up table comprising storage areas for entries of both dimensions (storing areas for both body dimensions can be found on tape 10 throughout the figures;
     Fig. 1c and 2g both show the formula yielding the entries of a corresponding look-up table; also cf. table 1 with entries of percentage body fat).

Consequently, the system of claim 1 is not new in the sense of Article 33(2) PCT.

It is indicated, that the subject-matter of claim 1 is also anticipated by document D2 (see capteurs périmétriques <u>4</u>, which constitute the means for measuring and calculateur <u>2</u>, in which a corresponding look-up table is stored; also cf. page 5, lines 20-38).

Furthermore, a **common system** for determining the body mass index (BMI) of humans, which has been cited on page 1 of the present application, is also detrimental to the novelty of the system of claim 1 (BMI = weight [kg] / height² [m²], where the weight is highly correlated and the height is lowly correlated with the body mass). Means for measuring both body characteristics are known, values yielded by the aforementioned formula are stored in corresponding look-up tables.

- 3 Since in independent claims 8 and 9 in fact no features are presented, which are different to those of independent claim 1 (cf. Section VIII), their novelty is also destroyed for the reasons mentioned above with regard to claim 1.
- Dependent claims 2-7 and 9-15 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step, respectively, the reasons being as follows:
- 4.1 Numerous body dimensions, as set out in claims 2 and 3, are suggested by D1 (see inscriptions on tape 10 and page 8, lines 20-24). Each of them furthermore merely represents one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill.
- 4.2 Indications of under, normal or overweight (claim 4) are given in table 1 of D1, which shows entries of percentage body fat (claim 5).
- 4.3 The equation brought forward in claims 6 and 10, respectively, merely result from trial-and-error experiments. Corresponding features can therefore not be considered to be based on an inventive step.
- 4.4 Each of the systems discussed above (see D1, D2 and the common system for BMI determination) are suitable for being applied to a cat, thereby being detrimental to the novelty of the subject-matter of claims 7 and 15.
- 4.5 The subject-matter of claims 11-14 merely represents common knowledge, thereby not involving an inventive step. With regard to the daily energy allowance, reference is made to page 5, lines 15-19, of D1.

## WRITTEN OPINION

## VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

# VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

#### Re Item VII

In summary, the subject-matter of the present application does not appear to be patentable at all. Should the applicant nevertheless regard any aspect of the application as to fulfill the requirements of the PCT, it should be accounted for the following observations:

argue

1

The independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).

The independent claims should therefore be redrafted accordingly.

include

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in document D1 is not mentioned in the description, nor is this document identified therein.

leave

The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

mend

According to the requirements of Rule 11.13(I) reference signs not appearing in the description shall not appear in the drawings, and vice versa. This requirement is not met in view of the reference sign 16 in Fig. 1.

In order to facilitate the examination of the conformity of the amended application with the requirements of Article 34(2)(b) PCT, the applicant is requested to clearly identify the amendments carried out, no matter whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based.

The applicant is requested to file amendments by way of replacement pages in the manner stipulated by Rule 66.8(a) PCT. In particular, fair copies of the amendments should be filed preferably in triplicate.

## Re Item VIII

Although claims 1 and 9 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought.

Hence, claims 1 and 9 do not meet the requirements of Article 6 PCT.

In this respect, the applicant's attention is also drawn to the requirement of unity of the invention (Rule 13 PCT), which is no more satisfied, since the subject-matter of all independent claims is not new in view of the prior art.

- The degree of correlation between a body dimension and the percentage body fat does not confer any **technical feature** to the measuring means of claim 1, contrary to the requirements of Article 6 PCT.
- 3 Since both measurements of claim 1 can e.g. be performed using the same tape measure, both means for measuring in fact correspond to one single feature.
- The feature in system claim 1, according to which the indication of body fat is determined from a relationship, relates to a method of using the apparatus rather than clearly defining the apparatus in terms of its **technical features**. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT.
- Claim 4 attempts to define its subject-matter in terms of the result to be achieved which merely amounts to a statement of the underlying problem, thereby violating Article 6 PCT. The technical features necessary for achieving this result should be added.

Claims 7 and 15 do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The functional statement of a cat to be measured does not enable the skilled person to determine which technical features are necessary to perform the stated function (also cf. the Guidelines PCT III-4.8a).